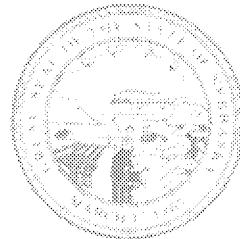


NEBRASKA

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X9414811398765851124494
DEPT. OF ENVIRONMENT AND ENERGY



Pete Ricketts, Governor

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

November 17, 2021

Ex. 4 CBI

Letter of Noncompliance

RE: AltEn, LLC
NDEE ID: 84069
Program ID: NE0137634, NER910444

Dear Mr. [Redacted]

Ex. 4 CBI

This Letter of Noncompliance (LNC) is being issued to you for documented violations of Title 119 - *Rules and Regulations Pursuant to the Issuance of Permits under the National Pollutant Elimination System* (NPDES). The violations were determined during a records review conducted on November 2, 2021. The review is enclosed.

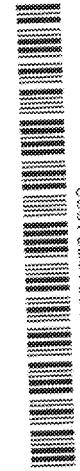
1. **Failure to comply with monitoring requirements.** Noncontact cooling water sampling was not conducted by the facility for NPDES Permit NE0137634, Outfall 001, for the July through September 2021 monitoring period. Site inspections conducted in August and September 2021 observed noncontact cooling water flow.

Regulations that have been referenced are available online at the Department's website:
<http://dee.ne.gov>

In order to cease and/or mitigate these violations, the Department requests that you:

1. **By December 1, 2021,** sample the noncontact cooling water discharge. Enter the results in NetDMR. Continue to sample the noncontact cooling water discharge as required by the permit.

The Department requests that you voluntarily comply with these corrective measures. These violations may be considered for further enforcement action. We will evaluate your prompt compliance and will consider your efforts to determine if enforcement action is warranted. Enforcement action may include issuance of an administrative order, or referral to the Attorney General for penalties of up to \$10,000 per day per violation, and/or injunctive relief.



In addition, storm water samples collected by the Department resulted in measured values above the benchmarks in General Permit NER910000 (ISW-GP) and measured pesticides. Those sample results are enclosed.

Pursuant to Neb. Rev. Stat. §81-1511 the Department is requesting the sample results of the last four (4) consecutive quarterly benchmark sample events for the AltEn, LLC facility. This is the benchmark sampling required in Section 6.2.1 of NPDES General Permit NER910000 and described on Page 24 of your Storm Water Pollution Prevention Plan (SWPPP). The requested sample results will characterize storm events occurring in the October through December 2020, January through March 2021, April through June 2021, and July through September 2021 quarterly monitoring periods.

Please direct all contacts and any written response to this LNC to:

Brad Pracheil, Administrator
Inspection and Compliance Division
P.O. Box 98922
Lincoln, NE 68509-8922
Phone 402-471-4141

Sincerely,



Brad Pracheil, Administrator
Inspection and Compliance Division

BP/rsa

enclosure(s)

cc: Ex. 4 CBI AltEn, LLC

NPDES Compliance Section
Memorandum

To: File
From: Reuel S Anderson *RSA*
Date: 11/2/2021
RE: AltEn, LLC, File Review
NDEE ID: 84069
Program ID: NEO137634, NER910444

I reviewed the reporting information submitted by AltEn for Outfall 001, cooling water discharge in National Pollutant Discharge Elimination System Permit (NPDES) permit NEO137634. The monitoring periods reviewed are in the attached spreadsheet. The monitoring period ending September 30, 2021 is submitted at 'Insufficient Flow for Sampling'.

The site inspections conducted by NDEE on August 18, 2021, August 23, 2021, August 25, 2021, August 31, 2021, and September 13, 2021 included observations of a discharge of cooling water from the tower basin. These observations indicate the flow was sufficient to collect the required parameters required in Table 1 of the NPDES permit.

AltEn, LLC is issued authorization NER910444 under NPDES General Permit Number NER910000 (ISW-GP). This general permit authorizes discharges of storm water from industrial sites. The AltEn, LLC facility is covered under Subsector C5 of the ISW-GP, Organic Chemicals. This subsector requires samples for total suspended solids (TSS), chemical oxygen demand (COD) and ammonia with benchmark values of 100 mg/L, 120 mg/L, and 10mg/L respectively.

NDEE collected storm water samples from two locations within the site boundaries. These locations are identified on the sample results as Culvert A and Culvert B. The ISW-GP benchmark results are shown below:

Total Suspended Solids

Date Sampled	Location	Sample Results
10/01/2021	Culvert A	23.0 mg/L
10/24/2021	Culvert A	9.5 mg/L
10/01/2021	Culvert B	185 mg/L
10/24/2021	Culvert B	12.3 mg/L

Chemical Oxygen Demand

Date Sampled	Location	Sample Results
10/01/2021	Culvert A	204 mg/L
10/24/2021	Culvert A	101 mg/L
10/01/2021	Culvert B	84.0 mg/L
10/24/2021	Culvert B	65.0 mg/L

Ammonia

Date Sampled	Location	Sample Results
10/01/2021	Culvert A	12.1 mg/L
10/24/2021	Culvert A	26.0 mg/L
10/01/2021	Culvert B	0.624 mg/L
10/24/2021	Culvert B	25.0 mg/L

20210818391

Highlighted results exceed the ISW-GP benchmark values. Benchmark exceedance is not an ISW-GP violation (See ISW-GP, Section 6.2.1) but an indicator to determine the overall effectiveness of implemented control measures and needed corrective action.

When the average of the data exceeds the ISW-GP benchmarks in four consecutive quarters, storm water controls must be reviewed, modified, or added as corrective action (See ISW-GP, Section 3). Sampling must continue until the average for four consecutive quarters meets the benchmark.

Pesticides were sampled on October 1, 2021, and October 24, 2021. Those analytical results are attached.

Attached:

- Cooling water monitoring spreadsheet
- NDEE benchmark monitoring locations
- NDEE benchmark monitoring analytical results
- NDEE storm water pesticide monitoring results

11/02/2021

1/1

Facility DMR Violations & Data

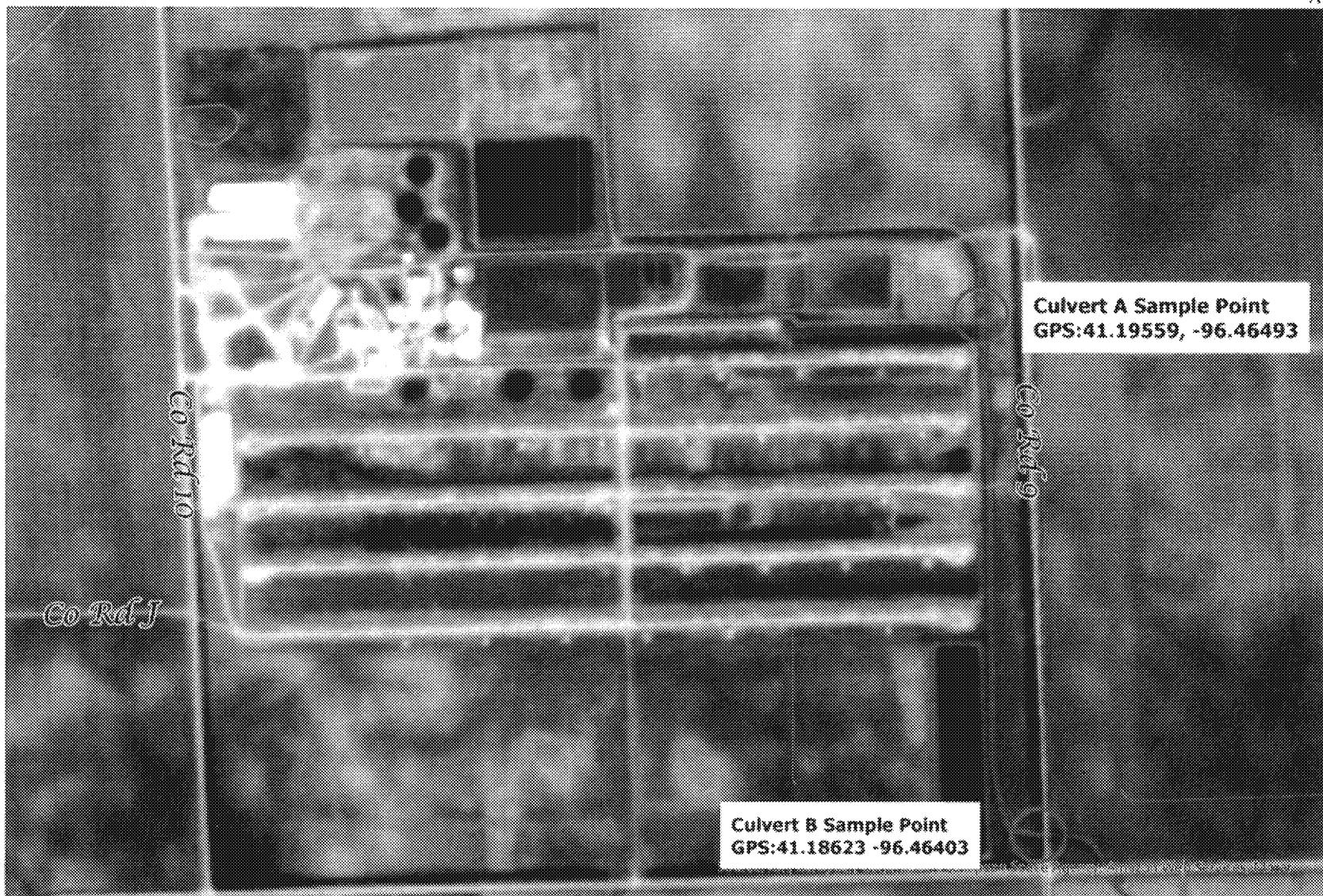
ALLEN, LLC., ALLEN, LLC., NE0137634

Disch- Dmrs	Monitoring Period End Date	Param- eter Code	Parameter Description	Mon- itoring Type	GMR Value	Stat Base Unit	DMR Value	Permit Limit	Unit	Short Code	Over Limit	Violat- ion Category	Violation Status	DMR Rec'd Date	Days late	NCI!	Notes
001-Q	06/30/2021	00011	Temperature, water deg.	1	Q 1	MO AVG			deg F	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00011	Temperature, water deg.	1	Q 2	DAILY MX		90.	deg F	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00094	Conductivity	1	C 2	MO AVG			umho/mc	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00094	Conductivity	1	C 3	DAILY MX			umho/mc	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00310	BOD, 5-day, 20 deg. C	1	C 2	MO AVG			mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00310	BOD, 5-day, 20 deg. C	1	C 3	DAILY MX			mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00400	pH	1	C 1	DAILY MN		8.5	SU	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00400	pH	1	C 3	DAILY MX		9	SU	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00530	Solids, total suspended	1	C 2	MO AVG			mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00530	Solids, total suspended	1	C 3	DAILY MX			mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00600	Nitrogen, total [as N]	1	C 2	MO AVG			mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00600	Nitrogen, total [as N]	1	C 3	DAILY MX			mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00940	Chloride [as Cl]	1	C 2	MO AVG			mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	00940	Chloride [as Cl]	1	C 3	DAILY MX			mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	46116	Hydrocarbons, total gas	1	C 2	MO AVG			mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	46116	Hydrocarbons, total gas	1	C 3	DAILY MX		10.	mg/l	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	50050	Flow, in conduit or thru tr	1	Q 1	MO AVG			MGD	%				07/29/2021	1	C	No Discharge
001-Q	06/30/2021	50050	Flow, in conduit or thru tr	1	Q 2	DAILY MX			MGD	%				07/29/2021	1	C	No Discharge
001-Q	09/30/2021	00011	Temperature, water deg.	1	Q 1	MO AVG			deg F	%				10/28/2021	F		Insufficient Flow for Sampling
001-Q	09/30/2021	00011	Temperature, water deg.	1	Q 2	DAILY MX		90.	deg F	%				10/28/2021	F		Insufficient Flow for Sampling
001-Q	09/30/2021	00094	Conductivity	1	C 2	MO AVG			umho/mc	%				10/28/2021	F		Insufficient Flow for Sampling

001-Q	09/30/2021	00094	Conductivity	1	C 3	DAILY MX	umho/oh	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00310	BOD, 5-day, 20 deg. C	1	C 2	MO AVG	mg/L	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00310	BOD, 5-day, 20 deg. C	1	C 3	DAILY MX	mg/L	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00400	pH	1	C 1	DAILY MN	6.5	SU	%	10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00400	pH	1	C 3	DAILY MX	9.	SU	%	10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00530	Solids, total suspended	1	C 2	MO AVG	mg/L	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00530	Solids, total suspended	1	C 3	DAILY MX	mg/L	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00600	Nitrogen, total (as N)	1	C 2	MO AVG	mg/L	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00600	Nitrogen, total (as N)	1	C 3	DAILY MX	mg/L	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00940	Chloride (as Cl)	1	C 2	MO AVG	mg/L	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	00940	Chloride (as Cl)	1	C 3	DAILY MX	mg/L	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	46116	Hydrocarbons, total gas	1	C 2	MO AVG	mg/L	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	46116	Hydrocarbons, total gas	1	C 3	DAILY MX	10.	mg/L	%	10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	50050	Flow, in conduit or thru a	1	Q 1	MO AVG	MGD	%		10/28/2021	F	Insufficient Flow for Sampling
001-Q	09/30/2021	50050	Flow, in conduit or thru a	1	Q 2	DAILY MX	MGD	%		10/28/2021	F	Insufficient Flow for Sampling

AltEn LLC - Storm Water Sampling Map -DRAFT-

N



Address: 11344 County Road 10, Mead NE
NDEQ ID: 84069
Program ID: NE0137634

1,000 500 0 1,000 2,000
Feet

NEBRASKA

DEPT OF ENVIRONMENT AND ENERGY

JW - October 2021

NEBRASKA

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Public Health
Environmental Lab**Nebraska Public Health Environmental Lab**

3701 S 14th St

Lincoln, NE 68502

(402) 471-2122

(402) 471-2080 (fax)

Dave Mrie
NDEE-SURFACE WATER UNIT
245 FALLBROOK BLVD
PO BOX 98922
Lincoln, NE 68509-8922

ANALYTICAL RESULT QUALIFIERS

Workorder: 9605 DEQ086-10012021

Profile: 09-013-0000, RTN:09-013-0000 P&C

Lab ID:	768129	Date Received:	10/4/2021	Matrix:	Water
Sample ID:	CULVERT A TSS	Date Collected:	10/1/2021 10:16		
Sample By:	WINDHORST, JASON	Date Reported:	10/22/2021		
Location:	N OF CULVERT				

Parameters	Your Results	Units	Qual	Report Limit	MCL or AL	Analyzed	By
Analytical Method: EPA 160.2 - TSS							
TSS (Non-Filterable Residue)	23.0	mg/L		5		10/8/2021	JDL

SAMPLE COMMENTS:

[1] Rec'd on wet ice 4.4C

REMARKS: See reverse side of report for description of acronyms and data qualifiers. For inquiries on result interpretation call: (402) 471-6435.

www.dhhs.ne.gov/lab

ACRONYMS

MCL	= Maximum Contaminant Level -- The concentration of the analyte which has been determined by the EPA to put the public health at risk. Concentrations below this level are considered acceptable.
AL	= Action Levels (AL) apply only to lead and copper and are not based on known or expected health effects. An Action Level is the concentration of a contaminant in a sample which, if exceeded and grouped with other samples, triggers treatment techniques or other requirements which a water system must follow.
<RL	= Less than Reporting Limit. The lowest amount of the analyte that can be accurately reported by the method used.
NG	= Not Given. The information was not supplied by the collector on the request form or the information was not readable.
ND or NT	= Not determined or not tested.

DATA QUALIFIERS

A	= The value given is an average value; determined by analyzing aliquots of the same sample two or more times
B	= The results are based upon colony counts outside the acceptable range. Fecal coliform results require that the plate count be in the range of 20-60. Fecal strep results require that the plate count be in the range of 20-100 colonies.
C	= The result given is a calculated value; it was not determined by direct analysis.
E	= Indication of possible interference.
F	= The sample was received in improper condition (container, temperature, preservative, sample container broken, paperwork discrepancies, air bubbles, insufficient volume, excess turbidity, chlorine smell, etc.)
H	= The sample was beyond the maximum holding time when received by the laboratory. It was therefore, not analyzed.
J	= The associated numerical value is an estimated quantity.
K	= The actual value is less than the value given.
L	= The actual value is greater than the value given.
M	= The analysis was inconclusive due to matrix interferences. The sample needs to be recollected.
O	= The sample was beyond the maximum holding time prior to analysis.
R	= The sample was delivered to the lab, but due to laboratory accident, it was unable to be analyzed.
S	= Not all of the associated quality control criteria were met for this analyte.

TOTAL COLIFORM TERMINOLOGY (DRINKING WATER)

Total coliform / E.coli Routine Compliance Monitoring – Required monitoring samples which are sent to each PWS System monthly or quarterly.

Repeat Samples – The method used for repeat samples, EPA 9223B-QT, provides the number of organisms in colony forming units (CFU) instead of presence or absence.

OR – ORIGINAL – One repeat sample must be taken from the same tap as the original positive.

DN – DOWNSTREAM – One repeat sample must be collected within 5 service connections downstream of the original positive sample site.

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TG – TRIGGERED – This water sample is to be collected from a source well (or a common or representative sample point for multiple wells) for systems required to conduct triggered sampling under the Ground Water Rule. If more than one well is being used by the system, additional samples should be collected using sample kits and submission forms designated as "TG". The system must request additional TG sample kits if needed.

Additional Routines – Systems collecting samples on a quarterly schedule must collect additional routine monitoring samples the month following one or more total coliform positive samples. Systems must collect at least three (3) routine samples during the next month.

Special – These samples are non-compliance samples and may be used to determine the presence of total coliform after a pressure loss, repairs, or routine maintenance.

Units – cfu/100ml – Colony Forming Units per milliliters – A unit of bacteria that will form one colony in 100 milliliters of sample.

Excessive Age – The sample was received at least 30 hours after it was collected. This test was not performed.

Insufficient Amount – The amount of samples the lab received was less than the 100 ml required to perform the test.

Improper Container – The container used to collect the sample was inappropriate for the test required.

Damage – Something damaged the sample before it could be tested. The bottle may have been broken or sample contaminated.

Insufficient Sample Information – The sample collector failed to include the laboratory request form with the sample, date of samples on the request form or the collector may have put the same lab number on multiple samples.

Excess Chlorine Interference – The results can not be determined due to excess chlorine in the sample.

Total Coliform Present – The test detected the presence of total coliform. The sample does not meet bacteriological standards.

Total Coliform Absent – The test did not detect the presence of any total coliform. The sample meets bacteriological standards.

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0 – The test did not detect the presence of any Total Coliform or E. Coli in the sample. The sample meets bacteriological standards.

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NEBRASKA

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Public Health
Environmental Lab**Nebraska Public Health Environmental Lab**

3701 S 14th St

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Dave Hirie
NOEE-SURFACE WATER UNIT
245 FALLBROOK BLVD
PO BOX 98922
Lincoln, NE 68509-8922

ANALYTICAL RESULT QUALIFIERS

Workorder: 9605 DEQ086-10012021

Profile: 09-013-0000, RTN:09-013-0000 P&C

Lab ID:	768130	Date Received:	10/4/2021	Matrix:	Water
Sample ID:	CULVERT A COD	Date Collected:	10/1/2021 10:16		
Sample By:	WINDHORST, JASON	Date Reported:	10/22/2021		
Location:	N OF CULVERT				

Parameters	Your Results	Units	Qual	Report Limit	MCL or AL	Analyzed	By
Analytical Method: Hach8000 - COD							
Chemical Oxygen Demand	204	mg/L		12		10/21/2021	JDL

SAMPLE COMMENTS:

[1] Rec'd on wet ice 4.4C

REMARKS: See reverse side of report for description of acronyms and data qualifiers. For inquiries on result interpretation call: (402) 471-6435.

www.dhss.ne.gov/lab

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Environmental Lab**Nebraska Public Health Environmental Lab**3701 S 14th St
Lincoln, NE 68502
(402) 471-2122
(402) 471-2080 (fax)

Dave Ihrie
NDEE-SURFACE WATER UNIT
245 FALLBROOK BLVD
PO BOX 88922
Lincoln, NE 68509-8822

ANALYTICAL RESULT QUALIFIERS

Workorder: 9605 DEQ086-10012021

Profile: 09-013-0000, RTN:09-013-0000 P&C

Lab ID:	768131	Date Received:	10/4/2021	Matrix:	Water
Sample ID:	CULVERT A AMMONIA	Date Collected:	10/1/2021 10:16		
Sample By:	WINDHORST, JASON	Date Reported:	10/22/2021		
Location:	N OF CULVERT				

Parameters	Your Results	Units	Qual	Report Limit	MCL or AL	Analyzed	By
Analytical Method: EPA 350.1 - Ammonia							
Ammonia as N, Diffused	12.1	mg/L		0.05		10/7/2021	AMJ

SAMPLE COMMENTS:

[1] Rec'd on wet ice 4.4C

REMARKS: See reverse side of report for description of acronyms and data qualifiers. For inquiries on result interpretation call: (402) 471-6435.

www.dhhs.ne.gov/lab

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R	= The sample was delivered to the lab, but due to laboratory accident, it was unable to be analyzed.
S	= Not all of the associated quality control criteria were met for this analyte.

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ANALYTICAL RESULT QUALIFIERS

Workorder: 9605 DEQ086-10012021

Profile: 09-013-0000, RTN:09-013-0000 P&C

Lab ID:	768132	Date Received:	10/4/2021	Matrix:	Water
Sample ID:	CULVERT B TSS	Date Collected:	10/1/2021 10:44		
Sample By:	WINDHORST, JASON	Date Reported:	10/22/2021		
Location:	W OF CULVERTS				

Parameters	Your Results	Units	Qual	Report Limit	MCL or AL	Analyzed	By
Analytical Method: EPA 160.2 - TSS							
TSS (Non-Filterable Residue)	185	mg/L		5		10/8/2021	JDL

SAMPLE COMMENTS:

[1] Rcv'd on wet ice 4.4C

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E	= Indication of possible interference.
F	= The sample was received in improper condition (container, temperature, preservative, sample container broken, paperwork discrepancies, air bubbles, insufficient volume, excess turbidity, chlorine smell, etc.)
H	= The sample was beyond the maximum holding time when received by the laboratory. It was therefore, not analyzed.
I	= The associated numerical value is an estimated quantity.
K	= The actual value is less than the value given.
L	= The actual value is greater than the value given.
M	= The analysis was inconclusive due to matrix interferences. The sample needs to be recollected.
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ANALYTICAL RESULT QUALIFIERS

Workorder: 9605 DEQ086-10012021

Profile: 09-013-0000, RTN:09-013-0000 P&C

Lab ID:	768133	Date Received:	10/4/2021	Matrix:	Water
Sample ID:	CULVERT B COD	Date Collected:	10/1/2021 10:44		
Sample By:	WINDHORST, JASON	Date Reported:	10/22/2021		
Location:	W OF CULVERTS				

Parameters	Your Results	Units	Qual	Report Limit	MCL or AL	Analyzed	By
Analytical Method: Hach8000 - COD							
Chemical Oxygen Demand	84.0	mg/L		12		10/21/2021	JDL

SAMPLE COMMENTS:

[1] Rcv'd on wet ice 4.4C

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ANALYTICAL RESULT QUALIFIERS

Workorder: 9605 DEQ086-10012021

Profile: 09-013-0000, RTN:09-013-0000 P&C

Lab ID:	768134	Date Received:	10/4/2021	Matrix:	Water
Sample ID:	CULVERT B AMMONIA	Date Collected:	10/1/2021 10:44		
Sample By:	WINDHORST, JASON	Date Reported:	10/22/2021		
Location:	W OF CULVERTS				

Parameters	Your Results	Units	Qual	Report Limit	MCL or AL	Analyzed	By
Analytical Method: EPA 350.1 - Ammonia							
Ammonia as N, Diffused	0.624	mg/L		0.05		10/7/2021	AMJ

SAMPLE COMMENTS:

[1] Rec'd on wet ice 4.4C

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ANALYTICAL RESULT QUALIFIERS

Workorder: 9708 DEQ1024202103

Profile: 03 FISH KILL, RTN:03 Fish Kill/Complaints

Lab ID:	771701	Date Received:	10/25/2021	Matrix:	Water
Sample ID:	771701	Date Collected:	10/24/2021 11:10		
Sample By:	SCHUMACHER, DAVE	Date Reported:	11/1/2021 15:46		
Location:	CULVERT A				

Parameters	Your Results	Units	Qual	Report Limit	MCL or AL	Analyzed	By
Analytical Method: EPA 160.2 - TSS TSS (Non-Filterable Residue)	12.3	mg/L	1	5		10/25/2021	AAP
Analytical Method: EPA 350.1 - Ammonia Ammonia as N, Diffused	25.0	mg/L		0.05		11/1/2021	AMJ
Analytical Method: Hach8000 - COD Chemical Oxygen Demand	65.0	mg/L		12		10/29/2021	AMJ

PARAMETER COMMENTS:

[1] A - Value given is an average value; determined by analyzing aliquots of the same sample two or more times

SAMPLE COMMENTS:

[1] Rec'd on ice 4.6C

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ANALYTICAL RESULT QUALIFIERS

Workorder: 9708 DEQ1024202103

Profile: 03 FISH KILL, RTN:03 Fish Kill/Complaints

Lab ID:	771702	Date Received:	10/25/2021	Matrix:	Water
Sample ID:	771702	Date Collected:	10/24/2021	10:50	
Sample By:	SCHUMACHER, DAVE	Date Reported:	11/1/2021	15:46	
Location:	CULVERT B				

Parameters	Your Results	Units	Qual	Report Limit	MCL or AL	Analyzed	By
Analytical Method: EPA 160.2 - TSS TSS (Non-Filterable Residue)	9.50	mg/L		5		10/25/2021	AAP
Analytical Method: EPA 350.1 - Ammonia Ammonia as N, Diffused	26.0	mg/L		0.06		11/1/2021	AMJ
Analytical Method: Hach8000 - COD Chemical Oxygen Demand	101	mg/L		12		10/29/2021	AMJ

SAMPLE COMMENTS:

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ACRONYMS

MCL	= Maximum Contaminant Level – The concentration of the analyte which has been determined by the EPA to put the public health at risk. Concentrations below this level are considered acceptable.
AL	= Action Levels (AL) apply only to lead and copper and are not based on known or expected health effects. An Action Level is the concentration of a contaminant in a sample which, if exceeded and grouped with other samples, triggers treatment techniques or other requirements which a water system must follow.
<RL	= Less than Reporting Limit. The lowest amount of the analyte that can be accurately reported by the method used.
NG	= Not Given. The information was not supplied by the collector on the request form or the information was not readable.
ND or NT	= Not determined or not tested.

DATA QUALIFIERS

A	= The value given is an average value; determined by analyzing aliquots of the same sample two or more times
B	= The results are based upon colony counts outside the acceptable range. Fecal coliform results require that the plate count be in the range of 20-60. Fecal strep results require that the plate count be in the range of 20-100 colonies.
C	= The result given is a calculated value; it was not determined by direct analysis.
E	= Indication of possible interference.
F	= The sample was received in improper condition (container, temperature, preservative, sample container broken, paperwork discrepancies, air bubbles, insufficient volume, excess turbidity, chlorine smell, etc.)
H	= The sample was beyond the maximum holding time when received by the laboratory. It was therefore, not analyzed.
I	= The associated numerical value is an estimated quantity.
K	= The actual value is less than the value given.
L	= The actual value is greater than the value given.
M	= The analysis was inconclusive due to matrix interferences. The sample needs to be recollected.
Q	= The sample was beyond the maximum holding time prior to analysis.
R	= The sample was delivered to the lab, but due to laboratory accident, it was unable to be analyzed.
S	= Not all of the associated quality control criteria were met for this analyte.

TOTAL COLIFORM TERMINOLOGY (DRINKING WATER)

Total coliform / E.coli Routine Compliance Monitoring – Required monitoring samples which are sent to each PWS System monthly or quarterly.

Repeat Samples – The method used for repeat samples. EPA 9223B-QT, provides the number of organisms in colony forming units (CFU) instead of presence or absence.

OR – ORIGINAL – One repeat sample must be taken from the same tap as the original positive.

DN – DOWNSTREAM – One repeat sample must be collected within 5 service connections downstream of the original positive sample site.

UP – UPSTREAM – One repeat sample must be collected within 5 service connections upstream of the original positive sample site.

TG – TRIGGERED – This water sample is to be collected from a source well (or a common or representative sample point for multiple wells) for systems required to conduct triggered sampling under the Ground Water Rule. If more than one well is being used by the system, additional samples should be collected using sample kits and submission forms designated as "TG". The system must request additional TG sample kits if needed.

Additional Routines – Systems collecting samples on a quarterly schedule must collect additional routine monitoring samples the month following one or more total coliform positive samples. Systems must collect at least three (3) routine samples during the next month.

Special – These samples are non-compliance samples and may be used to determine the presence of total coliform after a pressure loss, repairs, or routine maintenance.

Units – cfu/100ml – Colony Forming Units per milliliters – A unit of bacteria that will form one colony in 100 milliliters of sample.

Excessive Age – The sample was received at least 30 hours after it was collected. This test was not performed.

Insufficient Amount – The amount of samples the lab received was less than the 100 ml required to perform the test.

Improper Container – The container used to collect the sample was inappropriate for the test required.

Damage – Something damaged the sample before it could be tested. The bottle may have been broken or sample contaminated.

Insufficient Sample Information – The sample collector failed to include the laboratory request form with the sample, date of samples on the request form or the collector may have put the same lab number on multiple samples.

Excess Chlorine Interference – The results can not be determined due to excess chlorine in the sample.

Total Coliform Present – The test detected the presence of total coliform. The sample does not meet bacteriological standards.

Total Coliform Absent – The test did not detect the presence of any total coliform. The sample meets bacteriological standards.

E. Coli Present – The test detected the presence of E. Coli in the sample. The sample does not meet bacteriological standards.

E. Coli Absent – The test did not detect the presence of any E. Coli in the sample. The sample meets bacteriological standards.

0 – The test did not detect the presence of any Total Coliform or E. Coli in the sample. The sample meets bacteriological standards.

Any Number over 0 – The test detected Total Coliform or E. Coli present in the sample. The number indicated the total number of colony forming units present in 100 ml of the sample. The sample does not meet bacteriological standards.

MPN-Most Probable Number: An index of the number of bacteria that, more probably than any other number, would give the results shown by the lab examination; it is not an actual enumeration.



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Report Number: P212588
Report Date: October 19, 2021
Client Project ID: (none)

Analytical Report

Client Sample ID: Storm Water Culvert A
Matrix: water

PAL Sample ID: P212588-01
Sample Date: 10/1/21
Received Date: 10/5/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: LC-MS/MS					
10/08/21	10/9/21	AMPA	ND	40 ug/L	
10/08/21	10/9/21	Glufosinate	ND	10 ug/L	
10/08/21	10/9/21	Glyphosate	ND	10 ug/L	
Method: Modified EPA 8278D (GC-MS/MS)					
10/08/21	10/10/21	Bifenthrin	ND	0.060 ug/L	
10/08/21	10/10/21	Captan	ND	0.30 ug/L	
10/08/21	10/10/21	Chlorpyrifos	ND	0.060 ug/L	
10/08/21	10/10/21	Chlorpyrifos-methyl	ND	0.060 ug/L	
10/08/21	10/10/21	Cyfluhrin	ND	0.30 ug/L	
10/08/21	10/10/21	Cypermethrin	ND	0.30 ug/L	
10/08/21	10/10/21	Deltamethrin	ND	0.30 ug/L	
10/08/21	10/10/21	Fludioxonil	0.21 ug/L	0.060 ug/L	
10/08/21	10/10/21	lambda-Cyhalothrin	ND	0.060 ug/L	
10/08/21	10/10/21	Mefenoxam	4.9 ug/L	0.60 ug/L	
10/08/21	10/10/21	Permethrin	ND	0.12 ug/L	
10/08/21	10/10/21	Sedaxane	0.47 ug/L	0.060 ug/L	
10/08/21	10/10/21	Tetraconazole	ND	0.060 ug/L	
10/08/21	10/10/21	Tioxazafen	ND	0.060 ug/L	
Surrogate Recovery: 100 %					
Surrogate Recovery Range: 60-141					
(TPP-d15 used as Surrogate)					
Method: Modified EPA 8321B (LC-MS/MS)					
10/08/21	10/8/21	Abamectin	0.33 ug/L	0.060 ug/L	
10/08/21	10/8/21	Acetamiprid	ND	0.060 ug/L	
10/08/21	10/8/21	Azoxystrobin	0.064 ug/L	0.060 ug/L	
10/08/21	10/8/21	Brassinazole	ND	0.060 ug/L	
10/06/21	10/6/21	Carbendazim	ND	0.060 ug/L	
10/06/21	10/6/21	Carboxin	0.074 ug/L	0.060 ug/L	
10/08/21	10/8/21	Chlorantraniliprole	2.9 ug/L	0.060 ug/L	

Rick Jordan
Rick Jordan, Laboratory Director

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard.



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Lincoln, NE 68521

Report Number: P212588
Report Date: October 19, 2021
Client Project ID: [none]

Analytical Report

Client Sample ID: Storm Water Culvert A
Matrix: water

PAL Sample ID: P212588-01
Sample Date: 10/1/21
Received Date: 10/5/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
10/06/21	10/6/21	Clethianilin	11 ug/L	0.060 ug/L	
10/08/21	10/8/21	Cyantraniliprole	ND	0.060 ug/L	
10/08/21	10/8/21	Cyproconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Difenoconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Dimoxystrobin	ND	0.060 ug/L	
10/06/21	10/6/21	Dinotefuran	ND	0.060 ug/L	
10/08/21	10/8/21	Epiconazole	ND	0.060 ug/L	
10/06/21	10/6/21	Flaconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Fluoxastrobin	1.0 ug/L	0.060 ug/L	
10/08/21	10/8/21	Imidacloprid	0.072 ug/L	0.060 ug/L	
10/08/21	10/8/21	Ipcconazole	0.097 ug/L	0.060 ug/L	
10/08/21	10/8/21	Isavuconazole	ND	0.060 ug/L	
10/06/21	10/6/21	Itraconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Metconazole	ND	0.060 ug/L	
10/06/21	10/6/21	Nitenpyram	ND	0.060 ug/L	
10/08/21	10/8/21	Orysastrobin	ND	0.060 ug/L	
10/08/21	10/8/21	Picoxystrobin	ND	0.060 ug/L	
10/06/21	10/6/21	Posaconazole	ND	0.10 ug/L	
10/08/21	10/8/21	Propiconazole	ND	0.060 ug/L	
10/06/21	10/6/21	Prothioconazole	ND	0.10 ug/L	
10/08/21	10/8/21	Pyraclostrobin	ND	0.060 ug/L	
10/08/21	10/8/21	Ravuconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Tebuconazole	0.87 ug/L	0.060 ug/L	
10/08/21	10/8/21	Thiabendazole	1.0 ug/L	0.060 ug/L	
10/08/21	10/8/21	Thiacloprid	ND	0.060 ug/L	
10/08/21	10/8/21	Thiamethoxam	2.7 ug/L	0.060 ug/L	
10/06/21	10/6/21	Thiophanate methyl	ND	0.060 ug/L	
10/08/21	10/8/21	Trifloxystrobin	ND	0.060 ug/L	
10/08/21	10/8/21	Ucononazole	ND	0.060 ug/L	
10/08/21	10/8/21	Voriconazole	ND	0.060 ug/L	

Surrogate Recovery: 102 %

Surrogate Recovery Range: 60-140

(TPP-d15 used as Surrogate)

Rick Jordan, Laboratory Director

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Quality Standard.



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Report Number: P212588
Report Date: October 19, 2021
Client Project ID: [none]

Analytical Report

Client Sample ID: Storm Water Culvert B
Matrix: water

PAL Sample ID: P212588-02
Sample Date: 10/1/21
Received Date: 10/5/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: LC-MS/MS					
10/08/21	10/9/21	AMPA	ND	40 ug/L	
10/08/21	10/9/21	Glufosinate	ND	10 ug/L	
10/08/21	10/9/21	Glyphosate	ND	10 ug/L	
Method: Modified EPA 8270D (GC-MS/MS)					
10/08/21	10/11/21	Bifenthrin	ND	0.060 ug/L	
10/08/21	10/11/21	Captan	ND	0.30 ug/L	
10/08/21	10/11/21	Chlorpyrifos	ND	0.060 ug/L	
10/08/21	10/11/21	Chlorpyrifos-methyl	ND	0.060 ug/L	
10/08/21	10/11/21	Cyfluthrin	ND	0.30 ug/L	
10/08/21	10/11/21	Cypermethrin	ND	0.30 ug/L	
10/08/21	10/11/21	Deltamethrin	ND	0.30 ug/L	
10/08/21	10/11/21	Fludioxonil	0.45 ug/L	0.060 ug/L	
10/08/21	10/11/21	lambda-Cyhalothrin	ND	0.060 ug/L	
10/08/21	10/11/21	Mefenoxam	0.19 ug/L	0.060 ug/L	
10/08/21	10/11/21	Permethrin	ND	0.12 ug/L	
10/08/21	10/11/21	Sedaxane	1.5 ug/L	0.060 ug/L	
10/08/21	10/11/21	Tetraconazole	ND	0.060 ug/L	
10/08/21	10/11/21	Tioxazafen	ND	0.060 ug/L	
Surrogate Recovery: 92 %					
Surrogate Recovery Range: 60-141					
(TPP-d15 used as Surrogate)					
Method: Modified EPA 8321B (LC-MS/MS)					
10/08/21	10/8/21	Abamectin	0.23 ug/L	0.060 ug/L	
10/08/21	10/8/21	Acetamiprid	ND	0.060 ug/L	
10/08/21	10/8/21	Azoxystrobin	0.082 ug/L	0.060 ug/L	
10/08/21	10/8/21	Brassinazole	ND	0.060 ug/L	
10/08/21	10/6/21	Carbendazim	ND	0.060 ug/L	
10/08/21	10/6/21	Carboxin	ND	0.060 ug/L	
10/08/21	10/8/21	Chlorantraniliprole	5.2 ug/L	0.60 ug/L	

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Rick Jordan, Laboratory Director

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Report Number: P212588
Report Date: October 19, 2021
Client Project ID: [none]

Analytical Report

Client Sample ID: Storm Water Culvert B
Matrix: water

PAL Sample ID: P212588-02
Sample Date: 10/1/21
Received Date: 10/5/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
10/06/21	10/6/21	Clothianidin	0.94 ug/L	0.060 ug/L	
10/08/21	10/8/21	Cyantraniliprole	ND	0.060 ug/L	
10/08/21	10/8/21	Cyproconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Difenconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Dimoxystrobin	ND	0.060 ug/L	
10/06/21	10/6/21	Dinotefuran	ND	0.060 ug/L	
10/08/21	10/8/21	Epiconazole	ND	0.060 ug/L	
10/06/21	10/6/21	Fluconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Fluoxastrobin	1.8 ug/L	0.060 ug/L	
10/08/21	10/8/21	Imidacloprid	ND	0.060 ug/L	
10/08/21	10/8/21	Ipcconazole	0.15 ug/L	0.060 ug/L	
10/08/21	10/8/21	Isavuconazole	ND	0.060 ug/L	
10/06/21	10/6/21	Itraconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Metconazole	ND	0.060 ug/L	
10/06/21	10/6/21	Nitenpyram	ND	0.060 ug/L	
10/08/21	10/8/21	Orysastrobin	ND	0.060 ug/L	
10/08/21	10/8/21	Picoxystrobin	ND	0.060 ug/L	
10/06/21	10/6/21	Posaconazole	ND	0.10 ug/L	
10/08/21	10/8/21	Propiconazole	ND	0.060 ug/L	
10/06/21	10/6/21	Prothioconazole	ND	0.10 ug/L	
10/08/21	10/8/21	Pyraclostrobin	ND	0.060 ug/L	
10/08/21	10/8/21	Ravuconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Tebuconazole	3.6 ug/L	0.60 ug/L	
10/08/21	10/8/21	Thiabendazole	4.2 ug/L	0.60 ug/L	
10/08/21	10/8/21	Thiacloprid	ND	0.060 ug/L	
10/08/21	10/8/21	Thiamethoxam	0.56 ug/L	0.060 ug/L	
10/06/21	10/6/21	Thiophanate methyl	ND	0.060 ug/L	
10/08/21	10/8/21	Trifloxystrobin	ND	0.060 ug/L	
10/08/21	10/8/21	Uniconazole	ND	0.060 ug/L	
10/08/21	10/8/21	Voriconazole	ND	0.060 ug/L	

Surrogate Recovery: 101 %

Surrogate Recovery Range: 60-140

(TPP-d15 used as Surrogate)

Rick Jordan, Laboratory Director

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard.



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Report Number: P212588
Report Date: October 19, 2021
Client Project ID: [none]

Quality Assurance

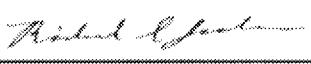
Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/6/21	10/7/21	21J0608-BLK1	Carbendazim	Not Detected	< 0.060 ug/L	
10/6/21	10/7/21	21J0608-BLK1	Carboxin	Not Detected	< 0.060 ug/L	
10/6/21	10/7/21	21J0608-BLK1	Clothianidin	Not Detected	< 0.060 ug/L	
10/6/21	10/7/21	21J0608-BLK1	Dinotefuran	Not Detected	< 0.060 ug/L	
10/6/21	10/7/21	21J0608-BLK1	Fluconazole	Not Detected	< 0.060 ug/L	
10/6/21	10/7/21	21J0608-BLK1	Itraconazole	Not Detected	< 0.060 ug/L	
10/6/21	10/7/21	21J0608-BLK1	Nitenpyram	Not Detected	< 0.060 ug/L	
10/6/21	10/7/21	21J0608-BLK1	Posaconazole	Not Detected	< 0.10 ug/L	
10/6/21	10/7/21	21J0608-BLK1	Prothioconazole	Not Detected	< 0.10 ug/L	
10/6/21	10/7/21	21J0608-BLK1	Thiophanate methyl	Not Detected	< 0.060 ug/L	

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/8/21	10/8/21	21J0802-BLK1	Abamectin	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Acetamiprid	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Azoxystrobin	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Bifenthrin	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Brassinazole	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Captan	Not Detected	< 0.30 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Chlorantraniliprole	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Chlorpyrifos	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Chlorpyrifos-methyl	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Cyantraniliprole	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Cyfluthrin	Not Detected	< 0.30 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Cypermethrin	Not Detected	< 0.30 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Cyproconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Deltamethrin	Not Detected	< 0.30 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Disenoconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Dimoxystrobin	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Epoxiconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Fthalinoxonil	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Fluoxastrobin	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Imidacloprid	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Iproconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Isavuconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Lambda-Cyhalothrin	Not Detected	< 0.060 ug/L	

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.


Rick Jordan, Laboratory Director

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Report Number: P212588
Report Date: October 19, 2021
Client Project ID: [none]

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/8/21	10/10/21	21J0802-BLK1	Mefenoxam	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Metconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Orysastrobin	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Permethrin	Not Detected	< 0.12 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Picoxystrobin	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Propiconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Pyraclostrobin	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Ravuconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Sedaxane	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Tebuconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Tetraconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Thiabendazole	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Thiaclorprad	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Thiamethoxam	Not Detected	< 0.060 ug/L	
10/8/21	10/10/21	21J0802-BLK1	Tioxazafen	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Trifloxystrobin	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Uniconazole	Not Detected	< 0.060 ug/L	
10/8/21	10/8/21	21J0802-BLK1	Voriconazole	Not Detected	< 0.060 ug/L	

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/8/21	10/9/21	21J0807-BLK1	AMPA	Not Detected	< 40 ug/L	
10/8/21	10/9/21	21J0807-BLK1	Glufosinate	Not Detected	< 10 ug/L	
10/8/21	10/9/21	21J0807-BLK1	Glyphosate	Not Detected	< 10 ug/L	

Rick Jordan, Laboratory Director

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard



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503.626.7943
21830 S.W. Alexander Ln
Sherwood, OR 97140

Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, NE 68521

Report Number: P212588
Report Date: October 19, 2021
Client Project ID: (none)

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/6/21	10/6/21	21J0608-BSD1	Carbendazim	99	60-140	
10/6/21	10/6/21	21J0608-BSD1	Carbendazim	98	60-140	
10/6/21	10/6/21	21J0608-BSD1	Carboxin	102	60-140	
10/6/21	10/6/21	21J0608-BSD1	Carboxin	101	60-140	
10/6/21	10/6/21	21J0608-BSD1	Clothianidin	103	60-140	
10/6/21	10/6/21	21J0608-BSD1	Clothianidin	99	60-140	
10/6/21	10/6/21	21J0608-BSD1	Dinotefuran	98	60-140	
10/6/21	10/6/21	21J0608-BSD1	Dinotefuran	99	60-140	
10/6/21	10/6/21	21J0608-BSD1	Fluconazole	98	60-140	
10/6/21	10/6/21	21J0608-BSD1	Fluconazole	100	60-140	
10/6/21	10/6/21	21J0608-BSD1	Itraconazole	99	60-140	
10/6/21	10/6/21	21J0608-BSD1	Itraconazole	102	60-140	
10/6/21	10/6/21	21J0608-BSD1	Nitenpyram	96	60-140	
10/6/21	10/6/21	21J0608-BSD1	Nitenpyram	101	60-140	
10/6/21	10/6/21	21J0608-BSD1	Posaconazole	98	60-140	
10/6/21	10/6/21	21J0608-BSD1	Posaconazole	101	60-140	
10/6/21	10/6/21	21J0608-BSD1	Prothioconazole	96	60-140	
10/6/21	10/6/21	21J0608-BSD1	Prothioconazole	90	60-140	
10/6/21	10/6/21	21J0608-BSD1	Thiophanate methyl	93	60-140	
10/6/21	10/6/21	21J0608-BSD1	Thiophanate methyl	97	60-140	

Rick Jordan, Laboratory Director

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.



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Sherwood OR 97140

Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, NE 68521

Report Number: P212588
Report Date: October 19, 2021
Client Project ID: [none]

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/8/21	10/8/21	21J0802-BSD1	Abamectin	88	60-140	
10/8/21	10/8/21	21J0802-BSD1	Abamectin	98	60-140	
10/8/21	10/8/21	21J0802-BSD1	Acetamiprid	99	60-140	
10/8/21	10/8/21	21J0802-BSD1	Acetamiprid	105	60-140	
10/8/21	10/8/21	21J0802-BSD1	Azoxystrobin	108	60-140	
10/8/21	10/8/21	21J0802-BSD1	Azoxystrobin	111	60-140	
10/8/21	10/10/21	21J0802-BSD1	Bifenthrin	89	63-142	
10/8/21	10/10/21	21J0802-BSD1	Bifenthrin	95	63-142	
10/8/21	10/8/21	21J0802-BSD1	Brassinazole	101	60-140	
10/8/21	10/8/21	21J0802-BSD1	Brassinazole	98	60-140	
10/8/21	10/10/21	21J0802-BSD1	Captan	106	32-119	
10/8/21	10/10/21	21J0802-BSD1	Captan	112	32-119	
10/8/21	10/8/21	21J0802-BSD1	Chlorantraniliprole	100	60-140	
10/8/21	10/8/21	21J0802-BSD1	Chlorantraniliprole	104	60-140	
10/8/21	10/10/21	21J0802-BSD1	Chlorpyrifos	90	69-128	
10/8/21	10/10/21	21J0802-BSD1	Chlorpyrifos	90	69-128	
10/8/21	10/10/21	21J0802-BSD1	Chlorpyrifos-methyl	91	61-131	
10/8/21	10/10/21	21J0802-BSD1	Chlorpyrifos-methyl	85	61-131	
10/8/21	10/8/21	21J0802-BSD1	Cyancuraniliprole	96	60-140	
10/8/21	10/8/21	21J0802-BSD1	Cyancuraniliprole	103	60-140	
10/8/21	10/10/21	21J0802-BSD1	Cyfluthrin	85	50-158	
10/8/21	10/10/21	21J0802-BSD1	Cyfluthrin	86	50-158	
10/8/21	10/10/21	21J0802-BSD1	Cypermethrin	82	48-163	
10/8/21	10/10/21	21J0802-BSD1	Cypermethrin	80	48-163	
10/8/21	10/8/21	21J0802-BSD1	Cyproconazole	99	60-140	
10/8/21	10/8/21	21J0802-BSD1	Cyproconazole	103	60-140	
10/8/21	10/10/21	21J0802-BSD1	Deltamethrin	91	59-148	
10/8/21	10/10/21	21J0802-BSD1	Deltamethrin	95	59-148	
10/8/21	10/8/21	21J0802-BSD1	Difenoconazole	95	60-140	
10/8/21	10/8/21	21J0802-BSD1	Difenoconazole	101	60-140	
10/8/21	10/8/21	21J0802-BSD1	Dimoxystrobin	100	60-140	
10/8/21	10/8/21	21J0802-BSD1	Dimoxystrobin	104	60-140	
10/8/21	10/8/21	21J0802-BSD1	Epoxiconazole	97	60-140	
10/8/21	10/8/21	21J0802-BSD1	Epoxiconazole	102	60-140	
10/8/21	10/10/21	21J0802-BSD1	Fludioxonil	85	49-143	
10/8/21	10/10/21	21J0802-BSD1	Fludioxonil	90	49-143	
10/8/21	10/8/21	21J0802-BSD1	Fluoxastrobin	104	60-140	
10/8/21	10/8/21	21J0802-BSD1	Fluoxastrobin	111	60-140	
10/8/21	10/8/21	21J0802-BSD1	Imidacloprid	98	60-140	
10/8/21	10/8/21	21J0802-BSD1	Imidacloprid	105	60-140	
10/8/21	10/8/21	21J0802-BSD1	Ipcconazole	88	60-140	
10/8/21	10/8/21	21J0802-BSD1	Ipcconazole	92	60-140	
10/8/21	10/8/21	21J0802-BSD1	Isavuconazole	99	60-140	

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard

Rick Jordan

Rick Jordan, Laboratory Director



PAL PACIFIC AGRICULTURAL LABORATORY

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Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, NE 68521

Report Number: P212588
Report Date: October 19, 2021
Client Project ID: [none]

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/8/21	10/8/21	21J0802-BSD1	Iavuconazole	103	60-140	
10/8/21	10/10/21	21J0802-BS1	lambda-Cyhalothrin	92	61-141	
10/8/21	10/10/21	21J0802-BSD1	lambda-Cyhalothrin	86	61-141	
10/8/21	10/10/21	21J0802-BS1	Mefenoxam	89	69-130	
10/8/21	10/10/21	21J0802-BSD1	Mefenoxam	84	69-130	
10/8/21	10/8/21	21J0802-BS1	Metconazole	100	60-140	
10/8/21	10/8/21	21J0802-BSD1	Metconazole	104	60-140	
10/8/21	10/8/21	21J0802-BS1	Orysastrobin	98	60-140	
10/8/21	10/8/21	21J0802-BSD1	Orysastrobin	107	60-140	
10/8/21	10/10/21	21J0802-BS1	Permethrin	90	62-146	
10/8/21	10/10/21	21J0802-BSD1	Permethrin	92	62-146	
10/8/21	10/8/21	21J0802-BS1	Picoxystrobin	87	60-140	
10/8/21	10/8/21	21J0802-BSD1	Picoxystrobin	97	60-140	
10/8/21	10/8/21	21J0802-BS1	Propiconazole	98	60-140	
10/8/21	10/8/21	21J0802-BSD1	Propiconazole	106	60-140	
10/8/21	10/8/21	21J0802-BS1	Pyraclostrobin	97	60-140	
10/8/21	10/8/21	21J0802-BSD1	Pyraclostrobin	102	60-140	
10/8/21	10/8/21	21J0802-BS1	Ravuconazole	102	60-140	
10/8/21	10/8/21	21J0802-BSD1	Ravuconazole	111	60-140	
10/8/21	10/10/21	21J0802-BS1	Sedaxane	89	60-140	
10/8/21	10/10/21	21J0802-BSD1	Sedaxane	91	60-140	
10/8/21	10/8/21	21J0802-BS1	Tebuconazole	99	60-140	
10/8/21	10/8/21	21J0802-BSD1	Tehucunazole	108	60-140	
10/8/21	10/10/21	21J0802-BS1	Tetraconazole	91	58-143	
10/8/21	10/10/21	21J0802-BSD1	Tetraconazole	86	58-143	
10/8/21	10/8/21	21J0802-BS1	Thiabendazole	84	60-140	
10/8/21	10/8/21	21J0802-BSD1	Thiabendazole	101	60-140	
10/8/21	10/8/21	21J0802-BS1	Thiacloprid	99	60-140	
10/8/21	10/8/21	21J0802-BSD1	Thiacloprid	105	60-140	
10/8/21	10/8/21	21J0802-BS1	Thiamethoxam	91	60-140	
10/8/21	10/8/21	21J0802-BSD1	Thiamethoxam	98	60-140	
10/8/21	10/10/21	21J0802-BS1	Tioxazafen	83	60-140	
10/8/21	10/10/21	21J0802-BSD1	Tioxazafen	81	60-140	
10/8/21	10/8/21	21J0802-BS1	Trifloxytrobin	98	60-140	
10/8/21	10/8/21	21J0802-BSD1	Trifloxytrobin	106	60-140	
10/8/21	10/8/21	21J0802-BS1	Uniconazole	100	60-140	
10/8/21	10/8/21	21J0802-BSD1	Uniconazole	101	60-140	
10/8/21	10/8/21	21J0802-BS1	Voriconazole	99	60-140	
10/8/21	10/8/21	21J0802-BSD1	Voriconazole	103	60-140	

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard.

Rick Jordan, Laboratory Director

Page 9 of 10

ED_013286A_00000644-00032



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503 626-7943
21830 SW Alexander Ln
Sherwood, OR 97140

Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, NE 68521

Report Number: P212588
Report Date: October 19, 2021
Client Project ID: [none]

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/8/21	10/9/21	21J0807-BSD1	AMPA	98	60-140	
10/8/21	10/9/21	21J0807-BSD1	AMPA	105	60-140	
10/8/21	10/9/21	21J0807-BSD1	Glufosinate	98	60-140	
10/8/21	10/9/21	21J0807-BSD1	Glufosinate	100	60-140	
10/8/21	10/9/21	21J0807-BSD1	Glyphosate	99	60-140	
10/8/21	10/9/21	21J0807-BSD1	Glyphosate	99	60-140	

Rick Jordan

Rick Jordan, Laboratory Director

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PAL PACIFIC AGRICULTURAL LABORATORY

ANALYTICAL REQUEST/CHAIN OF CUSTODY

Form F011, Rev C4

Page 1 of 1

PAL Project # 212588

CLIENT INFO		Pacific Agricultural Laboratory 21830 S.W. Alexander Ln. • Sherwood, OR 97140 Tel 503.626.7943 • pacaglab.com					
Company Nebraska Dept. of Environment and Energy		Requested Analysis					
Contact Dave Schumacher		Amen Project Contact Rick Jordan					
Address 245 Fallbrook Blvd.		Glyphosate/AMPA					
City Lincoln State NE Zip 68521		Glufosinate					
Telephone 402-471-4709 Mobile Phone _____		Comments					
Email(s) david.schumacher@nebraska.gov							
Project # Purchase Order # DaveS100421B							
PL# ID (Lab use only)	Gen Sample #	Sample Date	Sample Time	Sample Type	Container Type	No. of Containers	
212588 01	Storm Water Culvert A	10-1-21	1018	Water	1L Glass	1	x x x
* 02	Storm Water Culvert B	10-1-21	1044	Water	1L Glass	1	x x x
Reinvoiced by Dave Schumacher 10-1-21 212588 SIGNATURE		Received by Dave Schumacher 10-1-21 212588 SIGNATURE					
Reinvoiced by Dave Schumacher 10-4-21 1300 SIGNATURE		Signed by Dave Schumacher 10-5-21 1037 SIGNATURE					
Lab Comments _____							

All services performed by PAL are subject to the Standard Terms and Conditions on reverse side of this form.

We will discuss with PAL staff regarding the requested analyses of pesticides.



PAL PACIFIC AGRICULTURAL LABORATORY

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503.626.7943
21810 SW Alexander Ln
Sherwood OR 97140

Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, NE 68521

Report Number: P212838
Report Date: November 08, 2021
Client Project ID: [none]

Analytical Report

Client Sample ID: Storm Water Culvert A
Matrix: water

PAL Sample ID: P212838-01
Sample Date: 10/24/21
Received Date: 10/26/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
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Method: LC-MS/MS

10/28/21	10/29/21	AMPA	ND	40 ug/L
10/28/21	10/29/21	Glusinate	ND	10 ug/L
10/28/21	10/29/21	Glyphosate	ND	10 ug/L

Method: Modified EPA 8270D (GC-MS/MS)

10/29/21	11/2/21	Bifenthrin	ND	0.12 ug/L
10/29/21	11/2/21	Captan	ND	0.60 ug/L
10/29/21	11/2/21	Chlorpyrifos	ND	0.12 ug/L
10/29/21	11/2/21	Chlorpyrifos-methyl	ND	0.12 ug/L
10/29/21	11/2/21	Cyfluthrin	ND	0.60 ug/L
10/29/21	11/2/21	Cypermethrin	ND	0.60 ug/L
10/29/21	11/2/21	Deltamethrin	ND	0.60 ug/L
10/29/21	11/2/21	Fludioxonol	0.68 ug/L	0.12 ug/L
10/29/21	11/2/21	lambda-Cyhalothrin	ND	0.12 ug/L
10/29/21	11/2/21	Mefenoxam	1.4 ug/L	0.12 ug/L
10/29/21	11/2/21	Permethrin	ND	0.24 ug/L
10/29/21	11/2/21	Sedaxane	3.1 ug/L	0.12 ug/L
10/29/21	11/2/21	Tetraconazole	ND	0.12 ug/L
10/29/21	11/2/21	Tioxazafen	ND	0.12 ug/L

Surrogate Recovery: 92 %

Surrogate Recovery Range: 60-141

(TPP-d15 used as Surrogate)

Method: Modified EPA 8321B (LC-MS/MS)

10/29/21	10/29/21	Abamectin	6.3 ug/L	0.60 ug/L
10/29/21	10/29/21	Acetamiprid	ND	0.060 ug/L
10/29/21	10/29/21	Azoxystrobin	0.83 ug/L	0.060 ug/L
10/29/21	10/29/21	Brassinazole	ND	0.12 ug/L
10/28/21	10/28/21	Carbendazim	ND	0.060 ug/L
10/28/21	10/28/21	Carboxin	0.11 ug/L	0.060 ug/L
10/29/21	10/29/21	Chlorantraniliprole	8.3 ug/L	0.60 ug/L

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard.

Rick Jordan, Laboratory Director

Page 1 of 10

ED_013286A_00000644-00035



PAL PACIFIC AGRICULTURAL LABORATORY

Nebraska Department of Environment and Energy
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21830 S.W. Alexander Ln
Sherwood, OR 97140

Report Number: P212838
Report Date: November 08, 2021
Client Project ID: [none]

Analytical Report

Client Sample ID: Storm Water Culvert A
Matrix: water

PAL Sample ID: P212838-01
Sample Date: 10/24/21
Received Date: 10/26/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
10/28/21	10/28/21	Clotrimazol	3.0 ug/L	0.060 ug/L	
10/29/21	10/29/21	Cyantraniliprole	ND	0.060 ug/L	
10/29/21	10/29/21	Cyproconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Difenoconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Dimoxystrobin	ND	0.060 ug/L	
10/28/21	10/28/21	Dinotefuran	ND	0.060 ug/L	
10/29/21	10/29/21	Epoxiconazole	ND	0.060 ug/L	
10/28/21	10/28/21	Fluconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Fluoxastrobin	2.3 ug/L	0.060 ug/L	
10/29/21	10/29/21	Imidacloprid	ND	0.060 ug/L	
10/29/21	10/29/21	Ipcconazole	0.20 ug/L	0.060 ug/L	
10/29/21	10/29/21	Isavuconazole	ND	0.060 ug/L	
10/28/21	10/28/21	Itraconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Metconazole	ND	0.060 ug/L	
10/28/21	10/28/21	Nitepamycin	ND	0.060 ug/L	
10/29/21	10/29/21	Oryssastrubin	ND	0.060 ug/L	
10/29/21	10/29/21	Picoxystrobin	ND	0.060 ug/L	
10/28/21	10/28/21	Pusaconazole	ND	0.10 ug/L	
10/29/21	10/29/21	Propiconazole	0.53 ug/L	0.060 ug/L	
10/28/21	10/28/21	Prothioconazole	ND	0.10 ug/L	
10/29/21	10/29/21	Pyraclostrobin	ND	0.060 ug/L	
10/29/21	10/29/21	Ravuconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Tebuconazole	5.1 ug/L	0.60 ug/L	
10/29/21	10/29/21	Thiabendazole	7.4 ug/L	0.60 ug/L	
10/29/21	10/29/21	Thiacloprid	ND	0.060 ug/L	
10/29/21	10/29/21	Thiamethoxam	0.85 ug/L	0.060 ug/L	
10/28/21	10/28/21	Thiophanate methyl	ND	0.060 ug/L	
10/29/21	10/29/21	Trifloxystrobin	ND	0.060 ug/L	
10/29/21	10/29/21	Uroniconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Vericonazole	ND	0.060 ug/L	

Surrogate Recovery: 94 %

Surrogate Recovery Range: 60-140

(TPP-d15 used as Surrogate)

Rick Jordan, Laboratory Director

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard.



PAL PACIFIC AGRICULTURAL LABORATORY

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218 SE SW Alexander Ln

Sherwood, OR 97140

Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, NE 68521

Report Number: P212838
Report Date: November 08, 2021
Client Project ID: {none}

Analytical Report

Client Sample ID: Storm Water Culvert B
Matrix: water

PAL Sample ID: P212838-02
Sample Date: 10/24/21
Received Date: 10/26/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
Method: LC-MS/MS					
10/28/21	10/29/21	AMPA	ND	40 ug/L	
10/28/21	10/29/21	Glufosinate	ND	10 ug/L	
10/28/21	10/29/21	Glyphosate	ND	10 ug/L	
Method: Modified EPA 8270D (GC-MS/MS)					
10/29/21	11/2/21	Bifenthrin	ND	0.12 ug/L	
10/29/21	11/2/21	Captan	ND	0.60 ug/L	
10/29/21	11/2/21	Chlorpyrifos	ND	0.12 ug/L	
10/29/21	11/2/21	Chlorpyrifos-methyl	ND	0.12 ug/L	
10/29/21	11/2/21	Cyfluthrin	ND	0.60 ug/L	
10/29/21	11/2/21	Cypermethrin	ND	0.60 ug/L	
10/29/21	11/2/21	Deltamethrin	ND	0.60 ug/L	
10/29/21	11/2/21	Fludioxonil	0.44 ug/L	0.12 ug/L	
10/29/21	11/2/21	lambda-Cyhalothrin	ND	0.12 ug/L	
10/29/21	11/2/21	Mefenoxam	4.5 ug/L	1.2 ug/L	
10/29/21	11/2/21	Permethrin	ND	0.24 ug/L	
10/29/21	11/2/21	Sedaxane	1.2 ug/L	0.12 ug/L	
10/29/21	11/2/21	Tetraconazole	ND	0.12 ug/L	
10/29/21	11/2/21	Tioxazafen	ND	0.12 ug/L	
Surrogate Recovery: 92 %					
Surrogate Recovery Range: 80-141					
(TPP-d15 used as Surrogate)					
Method: Modified EPA 8321B (LC-MS/MS)					
10/29/21	10/29/21	Abamectin	0.46 ug/L	0.060 ug/L	
10/29/21	10/29/21	Acetamiprid	ND	0.060 ug/L	
10/29/21	10/29/21	Azoxystrobin	ND	0.060 ug/L	
10/29/21	10/29/21	Brassinazole	ND	0.12 ug/L	
10/28/21	10/28/21	Carbendazim	ND	0.060 ug/L	
10/28/21	10/28/21	Carboxin	0.062 ug/L	0.060 ug/L	
10/29/21	10/29/21	Chlorantraniliprole	6.1 ug/L	0.60 ug/L	

Rick Jordan

Rick Jordan, Laboratory Director

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.



PAL PACIFIC AGRICULTURAL LABORATORY

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503.626.7943
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Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, NE 68521

Report Number: P212838
Report Date: November 08, 2021
Client Project ID: [none]

Analytical Report

Client Sample ID: Storm Water Culvert B
Matrix: water

PAL Sample ID: P212838-02
Sample Date: 10/24/21
Received Date: 10/26/21

Extraction Date	Analysis Date	Analyte	Amount Detected	Limit of Quantitation	Notes
10/28/21	10/28/21	Clothianidin	1.0 ug/L	0.060 ug/L	
10/29/21	10/29/21	Cyantraniliprole	ND	0.060 ug/L	
10/29/21	10/29/21	Cyproconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Difenconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Dimoxystrobin	ND	0.060 ug/L	
10/28/21	10/28/21	Dimetefuran	ND	0.060 ug/L	
10/29/21	10/29/21	Epoxiconazole	ND	0.060 ug/L	
10/28/21	10/28/21	Fluconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Fluoxastrobin	1.4 ug/L	0.060 ug/L	
10/29/21	10/29/21	Imidacloprid	ND	0.060 ug/L	
10/29/21	10/29/21	Ipcconazole	0.40 ug/L	0.060 ug/L	
10/29/21	10/29/21	Isavuconazole	ND	0.060 ug/L	
10/28/21	10/28/21	Itraconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Metconazole	ND	0.060 ug/L	
10/28/21	10/28/21	Nitenpyram	ND	0.060 ug/L	
10/29/21	10/29/21	Orysastrobin	ND	0.060 ug/L	
10/29/21	10/29/21	Picoxystrobin	ND	0.060 ug/L	
10/28/21	10/28/21	Posaconazole	ND	0.10 ug/L	
10/29/21	10/29/21	Propiconazole	ND	0.060 ug/L	
10/28/21	10/28/21	Prothioconazole	ND	0.10 ug/L	
10/29/21	10/29/21	Pyraclostrobin	ND	0.060 ug/L	
10/29/21	10/29/21	Ravuconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Tebuconazole	3.4 ug/L	0.60 ug/L	
10/29/21	10/29/21	Thiabendazole	0.22 ug/L	0.060 ug/L	
10/29/21	10/29/21	Thiacloprid	ND	0.060 ug/L	
10/29/21	10/29/21	Thiamethoxam	0.75 ug/L	0.060 ug/L	
10/28/21	10/28/21	Thiophanate methyl	ND	0.060 ug/L	
10/29/21	10/29/21	Trifloxystrobin	ND	0.060 ug/L	
10/29/21	10/29/21	Uconazole	ND	0.060 ug/L	
10/29/21	10/29/21	Voriconazole	ND	0.060 ug/L	

Surrogate Recovery: 101 %

Surrogate Recovery Range: 60-140

(TPP-413 used as Surrogate)

Rick Jordan, Laboratory Director

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.



PAL PACIFIC AGRICULTURAL LABORATORY

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Silverwood, OR 97140

Nebraska Department of Environment and Energy
PO. Box 98922
Lincoln, NE 68521

Report Number: P212838
Report Date: November 08, 2021
Client Project ID: {none}

Quality Assurance

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/28/21	10/28/21	21J2804-BLK1	Carbendazim	Not Detected	< 0.060 ug/L	
10/28/21	10/28/21	21J2804-BLK1	Carboxin	Not Detected	< 0.060 ug/L	
10/28/21	10/28/21	21J2804-BLK1	Clothianidin	Not Detected	< 0.060 ug/L	
10/28/21	10/28/21	21J2804-BLK1	Dinotefuran	Not Detected	< 0.060 ug/L	
10/28/21	10/28/21	21J2804-BLK1	Fluconazole	Not Detected	< 0.060 ug/L	
10/28/21	10/28/21	21J2804-BLK1	Itraconazole	Not Detected	< 0.060 ug/L	
10/28/21	10/28/21	21J2804-BLK1	Nitenpyram	Not Detected	< 0.060 ug/L	
10/28/21	10/28/21	21J2804-BLK1	Posaconazole	Not Detected	< 0.10 ug/L	
10/28/21	10/28/21	21J2804-BLK1	Prothioconazole	Not Detected	< 0.10 ug/L	
10/28/21	10/28/21	21J2804-BLK1	Thiophanate methyl	Not Detected	< 0.060 ug/L	

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/28/21	10/29/21	21J2805-BLK1	AMPA	Not Detected	< 40 ug/L	
10/28/21	10/29/21	21J2805-BLK1	Glufosinate	Not Detected	< 10 ug/L	
10/28/21	10/29/21	21J2805-BLK1	Glyphosate	Not Detected	< 10 ug/L	

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/29/21	10/29/21	21J2902-BLK1	Abamectin	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Acetamiprid	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Azoxystrobin	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Bifenthrin	Not Detected	< 0.12 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Brassinazole	Not Detected	< 0.12 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Captan	Not Detected	< 0.60 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Chlorantraniliprole	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Chlorpyrifos	Not Detected	< 0.12 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Chlorpyrifos-methyl	Not Detected	< 0.12 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Cyantraniliprole	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Cyfluthrin	Not Detected	< 0.60 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Cypermethrin	Not Detected	< 0.60 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Cyproconazole	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Deltamethrin	Not Detected	< 0.60 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Difenoconazole	Not Detected	< 0.060 ug/L	

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Rick Jordan, Laboratory Director

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PAL PACIFIC AGRICULTURAL LABORATORY

Nebraska Department of Environment and Energy
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21830 S.W. Alexander Ln
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Report Number: P212838
Report Date: November 08, 2021
Client Project ID: [none]

Method Blank Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/29/21	10/29/21	21J2902-BLK1	Dimoxystrobin	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Epoxiconazole	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Fludioxonil	Not Detected	< 0.12 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Fluoxastrobin	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Imidacloprid	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Iproconazole	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Isvuconazole	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	lambda-Cyhalothrin	Not Detected	< 0.12 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Mefenoxam	Not Detected	< 0.12 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Metconazole	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Orysastrobin	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Permethrin	Not Detected	< 0.24 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Picoxystrobin	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Propiconazole	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Pyraclostrobin	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Ravuconazole	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Sedaxane	Not Detected	< 0.12 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Tebuconazole	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Tetraconazole	Not Detected	< 0.12 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Thiabendazole	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Thiacloprid	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Thiamethoxam	Not Detected	< 0.060 ug/L	
10/29/21	11/2/21	21J2902-BLK1	Tioxazafen	Not Detected	< 0.12 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Trifloxystrobin	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Uconazole	Not Detected	< 0.060 ug/L	
10/29/21	10/29/21	21J2902-BLK1	Voriconazole	Not Detected	< 0.060 ug/L	

Rick Jordan, Laboratory Director

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard.



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Nebraska Department of Environment and Energy
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Lincoln, NE 68521

Report Number: P212838
Report Date: November 08, 2021
Client Project ID: [none]

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/28/21	10/28/21	21J2804-BS1	Carbendazim	97	60-140	
10/28/21	10/28/21	21J2804-BSD1	Carbendazim	98	60-140	
10/28/21	10/28/21	21J2804-BS1	Carboxin	99	60-140	
10/28/21	10/28/21	21J2804-BSD1	Carboxin	99	60-140	
10/28/21	10/28/21	21J2804-BS1	Clothianidin	96	60-140	
10/28/21	10/28/21	21J2804-BSD1	Clothianidin	101	60-140	
10/28/21	10/28/21	21J2804-BS1	Dinotefuran	98	60-140	
10/28/21	10/28/21	21J2804-BSD1	Dinotefuran	102	60-140	
10/28/21	10/28/21	21J2804-BS1	Fluconazole	102	60-140	
10/28/21	10/28/21	21J2804-BSD1	Fluconazole	96	60-140	
10/28/21	10/28/21	21J2804-BS1	Itraconazole	107	60-140	
10/28/21	10/28/21	21J2804-BSD1	Itraconazole	95	60-140	
10/28/21	10/28/21	21J2804-BS1	Nitenpyram	100	60-140	
10/28/21	10/28/21	21J2804-BSD1	Nitenpyram	102	60-140	
10/28/21	10/28/21	21J2804-BS1	Posaconazole	92	60-140	
10/28/21	10/28/21	21J2804-BSD1	Posaconazole	99	60-140	
10/28/21	10/28/21	21J2804-BS1	Prothioconazole	88	60-140	
10/28/21	10/28/21	21J2804-BSD1	Prothioconazole	90	60-140	
10/28/21	10/28/21	21J2804-BS1	Thiophanate methyl	96	60-140	
10/28/21	10/28/21	21J2804-BSD1	Thiophanate methyl	108	60-140	

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/28/21	10/29/21	21J2805-BS1	AMPA	106	60-140	
10/28/21	10/29/21	21J2805-BSD1	AMPA	126	60-140	
10/28/21	10/29/21	21J2805-BS1	Glufosinate	102	60-140	
10/28/21	10/29/21	21J2805-BSD1	Glufosinate	97	60-140	
10/28/21	10/29/21	21J2805-BS1	Glyphosate	103	60-140	
10/28/21	10/29/21	21J2805-BSD1	Glyphosate	98	60-140	

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Rick Jordan, Laboratory Director

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PAL PACIFIC AGRICULTURAL LABORATORY

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P.O. Box 98922
Lincoln, NE 68521

Report Number: P212838
Report Date: November 08, 2021
Client Project ID: {none}

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/29/21	10/29/21	21J2902-BS1	Abamectin	80	60-140	
10/29/21	10/29/21	21J2902-BSD1	Abamectin	87	60-140	
10/29/21	10/29/21	21J2902-BS1	Acetamiprid	91	60-140	
10/29/21	10/29/21	21J2902-BSD1	Acetamiprid	94	60-140	
10/29/21	10/29/21	21J2902-BS1	Azoxystrobin	100	60-140	
10/29/21	10/29/21	21J2902-BSD1	Azoxystrobin	106	60-140	
10/29/21	11/2/21	21J2902-BS1	Bifenthrin	80	63-142	
10/29/21	11/2/21	21J2902-BSD1	Bifenthrin	83	63-142	
10/29/21	10/29/21	21J2902-BS1	Brassinazole	96	60-140	
10/29/21	10/29/21	21J2902-BSD1	Brassinazole	101	60-140	
10/29/21	11/2/21	21J2902-BS1	Captan	87	32-119	
10/29/21	11/2/21	21J2902-BSD1	Captan	89	32-119	
10/29/21	10/29/21	21J2902-BS1	Chlorantraniliprole	97	60-140	
10/29/21	10/29/21	21J2902-BSD1	Chlorantraniliprole	103	60-140	
10/29/21	11/2/21	21J2902-BS1	Chlorpyrifos	82	69-128	
10/29/21	11/2/21	21J2902-BSD1	Chlorpyrifos	85	69-128	
10/29/21	11/2/21	21J2902-BS1	Chlorpyrifos-methyl	82	61-131	
10/29/21	11/2/21	21J2902-BSD1	Chlorpyrifos-methyl	85	61-131	
10/29/21	10/29/21	21J2902-BS1	Cyantraniliprole	106	60-140	
10/29/21	10/29/21	21J2902-BSD1	Cyantraniliprole	112	60-140	
10/29/21	11/2/21	21J2902-BS1	Cyfluthrin	91	50-158	
10/29/21	11/2/21	21J2902-BSD1	Cyfluthrin	92	50-158	
10/29/21	11/2/21	21J2902-BS1	Cypermethrin	96	48-163	
10/29/21	11/2/21	21J2902-BSD1	Cypermethrin	97	48-163	
10/29/21	10/29/21	21J2902-BS1	Cyproconazole	96	60-140	
10/29/21	10/29/21	21J2902-BSD1	Cyproconazole	103	60-140	
10/29/21	11/2/21	21J2902-BS1	Deltamethrin	91	59-148	
10/29/21	11/2/21	21J2902-BSD1	Deltamethrin	90	59-148	
10/29/21	10/29/21	21J2902-BS1	Diffenoconazole	93	60-140	
10/29/21	10/29/21	21J2902-BSD1	Diffenoconazole	99	60-140	
10/29/21	10/29/21	21J2902-BS1	Dimoxystrobin	99	60-140	
10/29/21	10/29/21	21J2902-BSD1	Dimoxystrobin	102	60-140	
10/29/21	10/29/21	21J2902-BS1	Epoxiconazole	96	60-140	
10/29/21	10/29/21	21J2902-BSD1	Epoxiconazole	101	60-140	
10/29/21	11/2/21	21J2902-BS1	Fludioxonil	86	49-143	
10/29/21	11/2/21	21J2902-BSD1	Fludioxonil	90	49-143	
10/29/21	10/29/21	21J2902-BS1	Fluoxastrobin	97	60-140	
10/29/21	10/29/21	21J2902-BSD1	Fluoxastrobin	105	60-140	
10/29/21	10/29/21	21J2902-BS1	Imidacloprid	91	60-140	
10/29/21	10/29/21	21J2902-BSD1	Imidacloprid	94	60-140	
10/29/21	10/29/21	21J2902-BS1	Ipcconazole	94	60-140	
10/29/21	10/29/21	21J2902-BSD1	Ipcconazole	97	60-140	
10/29/21	10/29/21	21J2902-BS1	Isavuconazole	99	60-140	

This analytical report complies with the ISO/IEC 17025:2017 Quality Standard.

Rick Jordan, Laboratory Director

Page 8 of 10



PAL PACIFIC AGRICULTURAL LABORATORY

PACAGLASS.COM

503-626-7943
31801 SW Alexander Ln
Sherwood OR 97140

Nebraska Department of Environment and Energy
P.O. Box 98922
Lincoln, NE 68521

Report Number: P212838

Report Date: November 08, 2021

Client Project ID: (none)

Blank Spike Data Matrix: water

Extraction Date	Analysis Date	Batch QC Sample #	Analyte	% Recovery	Expected % Recovery	Notes
10/29/21	10/29/21	21J2902-BSD1	Iavuconazole	99	60-140	
10/29/21	11/2/21	21J2902-BS1	lambda-Cyhalothrin	90	61-141	
10/29/21	11/2/21	21J2902-BSD1	lambda-Cyhalothrin	92	61-141	
10/29/21	11/2/21	21J2902-BS1	Mefenoxam	87	69-130	
10/29/21	11/2/21	21J2902-BSD1	Mefenoxam	91	69-130	
10/29/21	10/29/21	21J2902-BS1	Metconazole	95	60-140	
10/29/21	10/29/21	21J2902-BSD1	Metconazole	99	60-140	
10/29/21	10/29/21	21J2902-BS1	Orysastrobin	99	60-140	
10/29/21	10/29/21	21J2902-BSD1	Orysastrobin	105	60-140	
10/29/21	11/2/21	21J2902-BS1	Permethrin	87	62-146	
10/29/21	11/2/21	21J2902-BSD1	Permethrin	88	62-146	
10/29/21	10/29/21	21J2902-BS1	Picoxytrobion	93	60-140	
10/29/21	10/29/21	21J2902-BSD1	Picoxytrobion	117	60-140	
10/29/21	10/29/21	21J2902-BS1	Propiconazole	92	60-140	
10/29/21	10/29/21	21J2902-BSD1	Propiconazole	97	60-140	
10/29/21	10/29/21	21J2902-BS1	Pyraclostrobin	96	60-140	
10/29/21	10/29/21	21J2902-BSD1	Pyraclostrobin	101	60-140	
10/29/21	10/29/21	21J2902-BS1	Ravuconazole	96	60-140	
10/29/21	10/29/21	21J2902-BSD1	Ravuconazole	114	60-140	
10/29/21	11/2/21	21J2902-BS1	Sedaxane	89	60-140	
10/29/21	11/2/21	21J2902-BSD1	Sedaxane	91	60-140	
10/29/21	10/29/21	21J2902-BS1	Tebuconazole	94	60-140	
10/29/21	10/29/21	21J2902-BSD1	Tebuconazole	108	60-140	
10/29/21	11/2/21	21J2902-BS1	Tetraconazole	89	58-143	
10/29/21	11/2/21	21J2902-BSD1	Tetraconazole	92	58-143	
10/29/21	10/29/21	21J2902-BS1	Thiabendazole	86	60-140	
10/29/21	10/29/21	21J2902-BSD1	Thiabendazole	91	60-140	
10/29/21	10/29/21	21J2902-BS1	Thiacloprid	90	60-140	
10/29/21	10/29/21	21J2902-BSD1	Thiacloprid	94	60-140	
10/29/21	10/29/21	21J2902-BS1	Thiamethoxam	84	60-140	
10/29/21	10/29/21	21J2902-BSD1	Thiamethoxam	88	60-140	
10/29/21	11/2/21	21J2902-BS1	Tioxazafen	82	60-140	
10/29/21	11/2/21	21J2902-BSD1	Tioxazafen	87	60-140	
10/29/21	10/29/21	21J2902-BS1	Trifloxystrobin	93	60-140	
10/29/21	10/29/21	21J2902-BSD1	Trifloxystrobin	98	60-140	
10/29/21	10/29/21	21J2902-BS1	Uconazole	97	60-140	
10/29/21	10/29/21	21J2902-BSD1	Uconazole	99	60-140	
10/29/21	10/29/21	21J2902-BS1	Voriconazole	97	60-140	
10/29/21	10/29/21	21J2902-BSD1	Voriconazole	102	60-140	

This analytical report complies with the ISO/IEC 17025:2017
Quality Standard.

Rick Jordan, Laboratory Director

Page 9 of 10

ED_013286A_00000644-00043



PAL PACIFIC AGRICULTURAL
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21830 S.W. Alexander Ln
Sherwood, OR 97140

Report Number: P212838
Report Date: November 08, 2021
Client Project ID: {none}

A handwritten signature in black ink that reads "Rick Jordan".

Rick Jordan, Laboratory Director

*This analytical report complies with the ISO/IEC 17025:2017
Quality Standard.*

PACIFIC AGRICULTURAL
LABORATORY

ANALYTICAL REQUEST/CHAIN OF CUSTODY

Form POC1 Rev D4

Pacific Agricultural Laboratory
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Tel 503.626.7943 • pacaglab.com

Page 1 of 1

PAI Project # 212858

CLIENT INFO		Nebraska Dept. of Environment and Energy					
Company		Dave Schumacher					
Contact		245 Fallbrook Blvd.					
Address							
City		Lincoln	State	NE	Zip	68521	
Telephone		402-471-4709	Mobile Phone				
Email		david.schumacher@nebraska.gov					
Project #		Purchase Order # DaveS102521B					

Requested Analysis

AMEN Project Expanded		Standard		Rush	
Glyphosate/AMPA					
Glufosinate					

Comments
 Standard
 Rush
Priority Options

PAL ID <small>(Lab use only)</small>	Client Sample ID	Sample Date	Sample Time	Sample Type	Container Type	No. of Containers	
21285801	Storm Water Culvert A	10-24-21	1110	Water	1L Glass	1	x x x
~02	Storm Water Culvert B	10-24-21	1050	Water	1L Glass	1	x x x

Released by
Dave Schumacher 10-24-21/215Received by
Dave Schumacher 10-25-21/300Released by
Dave Schumacher 10-24-21/215Received by
S. M. 10-25-21/300

Comments

All services performed by PAL are subject to the Standard Terms and Conditions on reverse side of this form.